

**PATENT ABSTRACTS OF JAPAN**(11)Publication number : **05-202328**(43)Date of publication of application : **10.08.1993**

(51)Int.Cl.

C09D 11/00

B41J 2/01

B41J 2/21

B41M 5/00

C09D 11/02

(21)Application number : **04-277921**(71)Applicant : **HEWLETT PACKARD CO <HP>**(22)Date of filing : **22.09.1992**(72)Inventor : **RADKE GAROLD E  
SHIELDS JAMES P**

(30)Priority

Priority number : **91 764024** Priority date : **23.09.1991** Priority country : **US****(54) METHOD FOR PRODUCING PRINTED IMAGE**

(57)Abstract:

PURPOSE: To provide a method for producing printed images which can efficiently produce stable, water-fast, color bleed-free printed images by comprising: applying a polyvalent metal salt soln. on a substrate; and then applying a specified ink compsn.

CONSTITUTION: A polyvalent metal salt soln. comprising at least one polyvalent metal cation selected from the group consisting of Ca<sup>2+</sup>, Cu<sup>2+</sup>, Ni<sup>2+</sup>, Mg<sup>2+</sup>, Zn<sup>2+</sup>, Ba<sup>2+</sup>, Al<sup>3+</sup>, Fe<sup>3+</sup>, and Cr<sup>3+</sup> and having a salt concn. of 5 to 40 wt.% is applied onto a substrate. An ink compsn. comprising at least one chemical dye material having at least one carboxyl group is then applied to produce a printed image.

**LEGAL STATUS**

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

Copyright (C); 1998,2003 Japan Patent Office